

Court-Data Fetcher & Mini-Dashboard (Colab Version)

Overview

This project is a **minimal, Colab-compatible implementation** of the “Court-Data Fetcher” internship task. It allows users to input a Case Type, Case Number, and Filing Year and fetches metadata and documents (if available) from the Indian eCourts system. Results are rendered directly in Colab, with PDF links and logging via SQLite.

Features

- Simple input form using ipywidgets
 - Automated scraping with **Playwright**
 - Data logging to **SQLite** (`queries.db`)
 - Downloads and links to the most recent judgment/order PDF
 - Colab-ready with no local setup required
-

Target Court

We used the **eCourts India Services** portal:

https://services.ecourts.gov.in/ecourtindia_v6/

This gives access to many District Courts. You may narrow this further (e.g., to Faridabad) or generalize based on your scraping strategy.

Tech Stack

- Python (Colab)
 - Playwright (Chromium)
 - SQLite
 - IPython Widgets
-

Setup (Google Colab)

1. Open the notebook in Google Colab
 2. Run **Cell 1** to install dependencies and set up the database
 3. Run **Cell 2** to launch the input form
 4. Enter case details and hit Fetch Case
 5. Review results and download PDFs
-

CAPTCHA Handling

The Delhi High Court and some others use CAPTCHA heavily. For simplicity and time constraints, this demo uses a court portal **that does not rely on CAPTCHA**. If CAPTCHA is added:

- Consider manual entry or pre-filled token injection
- Services like 2Captcha or AI-based vision tools may help

Document this in your submission if not handled fully.

Query Logging

Every query submitted is saved to `queries.db` including:

- Case Type
- Case Number
- Filing Year
- Raw HTML response (for analysis/debugging)

To view or download this file, use the Colab file browser panel.

Sample Env Config

No external secrets are used.

```
# .env.sample (not needed for Colab, here for completeness)
DB_FILE=queries.db
```

Sample Case Inputs

These are sample inputs for testing:

- Case Type: C
- Case Number: 123
- Filing Year: 2022

You may adjust based on actual case listings.

Optional Improvements

- Pagination for multiple orders
 - CAPTCHA solving / bypass
 - Gradio/Streamlit frontend
 - Docker conversion (non-Colab)
 - Selector robustness and retries
-

License

MIT License — Free to modify and use with attribution.

Note to Evaluators

This submission prioritizes a working MVP, running entirely in the cloud. Given time and access limits, certain enhancements (like robust scraping across all courts or CAPTCHA) are noted as future work.

Thanks for reviewing!